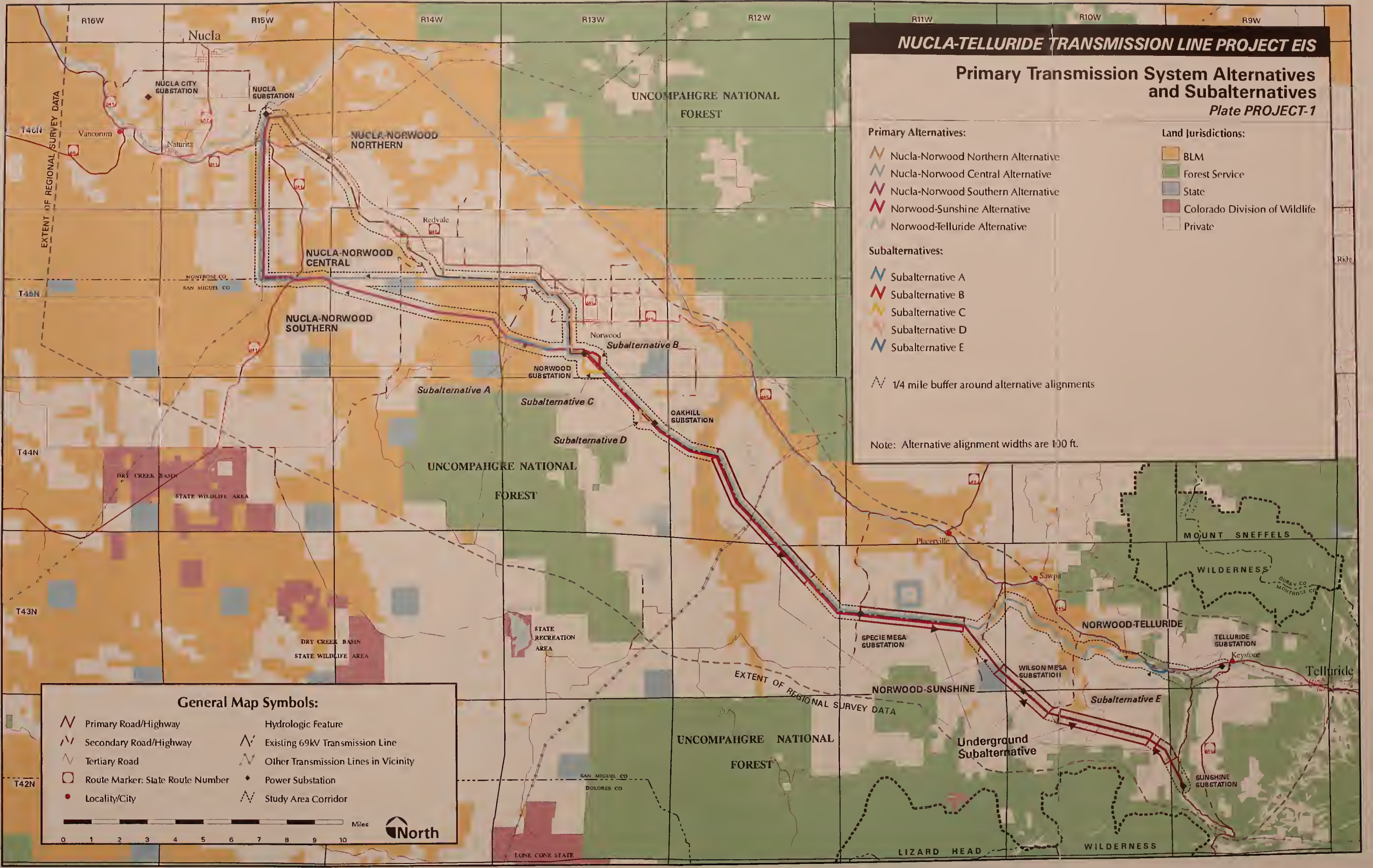


Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.



NUCLA-TELLURIDE TRANSMISSION LINE PROJECT EIS

Primary Transmission System Alternatives and Subalternatives

Plate PROJECT-1

Primary Alternatives:

- Nucla-Norwood Northern Alternative
- Nucla-Norwood Central Alternative
- Nucla-Norwood Southern Alternative
- Norwood-Sunshine Alternative
- Norwood-Telluride Alternative

Subalternatives:

- Subalternative A
- Subalternative B
- Subalternative C
- Subalternative D
- Subalternative E

Land Jurisdictions:

- BLM
- Forest Service
- State
- Colorado Division of Wildlife
- Private

General Map Symbols:

- Primary Road/Highway
- Secondary Road/Highway
- Tertiary Road
- Route Marker: State Route Number
- Locality/City
- Hydrologic Feature
- Existing 69kV Transmission Line
- Other Transmission Lines in Vicinity
- Power Substation
- Study Area Corridor

Note: Alternative alignment widths are 100 ft.

1/4 mile buffer around alternative alignments

Ride

Telluride

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Legend:

PROJECT DESIGN CHARACTERISTICS




115kV Transmission Line:

-  New 115kV single circuit transmission line
-  Existing 69kV transmission line rebuilt to single circuit 115kV
-  Existing 69kV transmission line rebuilt to single circuit 115kV with distribution underbuilt

Substation Modifications:



- Minor Changes at Nucla Substation
- Existing Norwood Substation Enlarged

69kV Transmission Line Poles Retained for Distribution


-  69kV transmission line poles retained for distribution
-  69kV transmission line and poles removed
-  Distribution underbuilt on 115kV

ACCESS CONDITIONS

No New Access:




-  Existing access and/or overland construction methods to be used
-  Helicopter construction methods to be used with existing limited access (no grading, removal of rocks from existing roads, ATV access)

Upgrade of Existing Access:



-  Road widening to 14 feet or spur roads to pole sites proposed

Other Map Symbols:

Existing Transmission System:

-  69kV Transmission Line
-  115kV Transmission Lines
-  345kV/230kV Transmission Lines

Existing Distribution System:

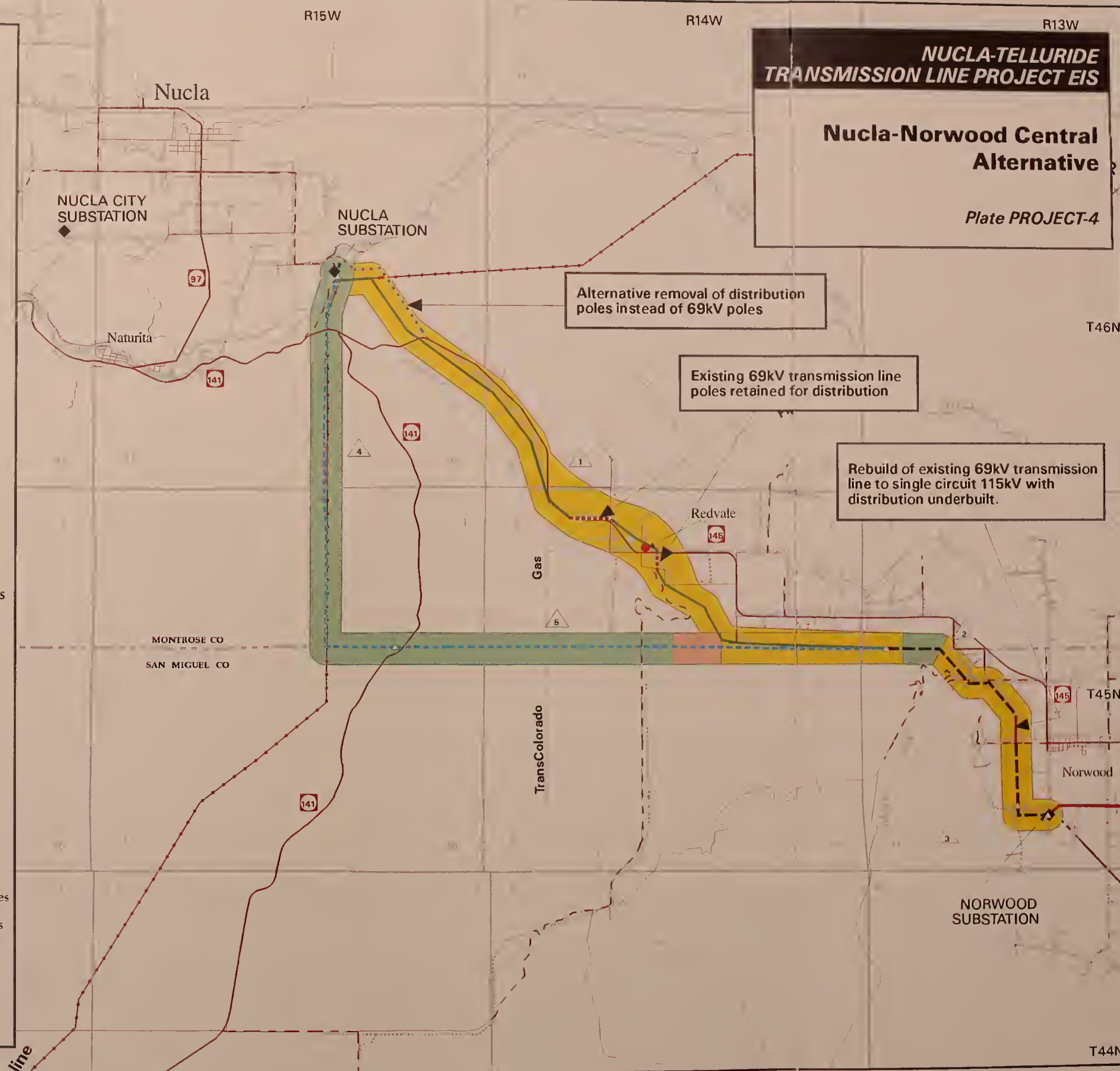
-  Above Ground SMPA Distribution Lines
-  Underground SMPA Distribution Lines



NUCLA-TELLURIDE TRANSMISSION LINE PROJECT EIS

Nucla-Norwood Central Alternative

Plate PROJECT-4



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Legend:

PROJECT DESIGN CHARACTERISTICS


115kV Transmission Line:


 New 115kV single circuit transmission line

Substation Modifications:

Minor Changes at Nucla Substation
Existing Norwood Substation Enlarged


69kV Transmission Line Poles Retained for Distribution


 Existing 69kV transmission line poles retained for distribution

 Existing 69kV transmission line removed


ACCESS CONDITIONS

No New Access:

 Existing access and/or overland construction methods to be used


 Helicopter construction methods to be used with existing limited access
(no grading, removal of rocks from existing roads, ATV access)

Upgrade of Existing Access:

 Road widening to 14 feet or spur roads to pole sites proposed

Other Map Symbols:

Existing Transmission System:

 69kV Transmission Line

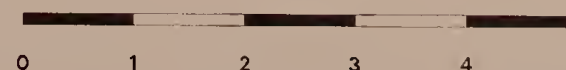
 115kV Transmission Lines

 345kV/230kV Transmission Lines

Existing Distribution System:

 Above Ground Distribution Lines

 Underground Distribution Lines

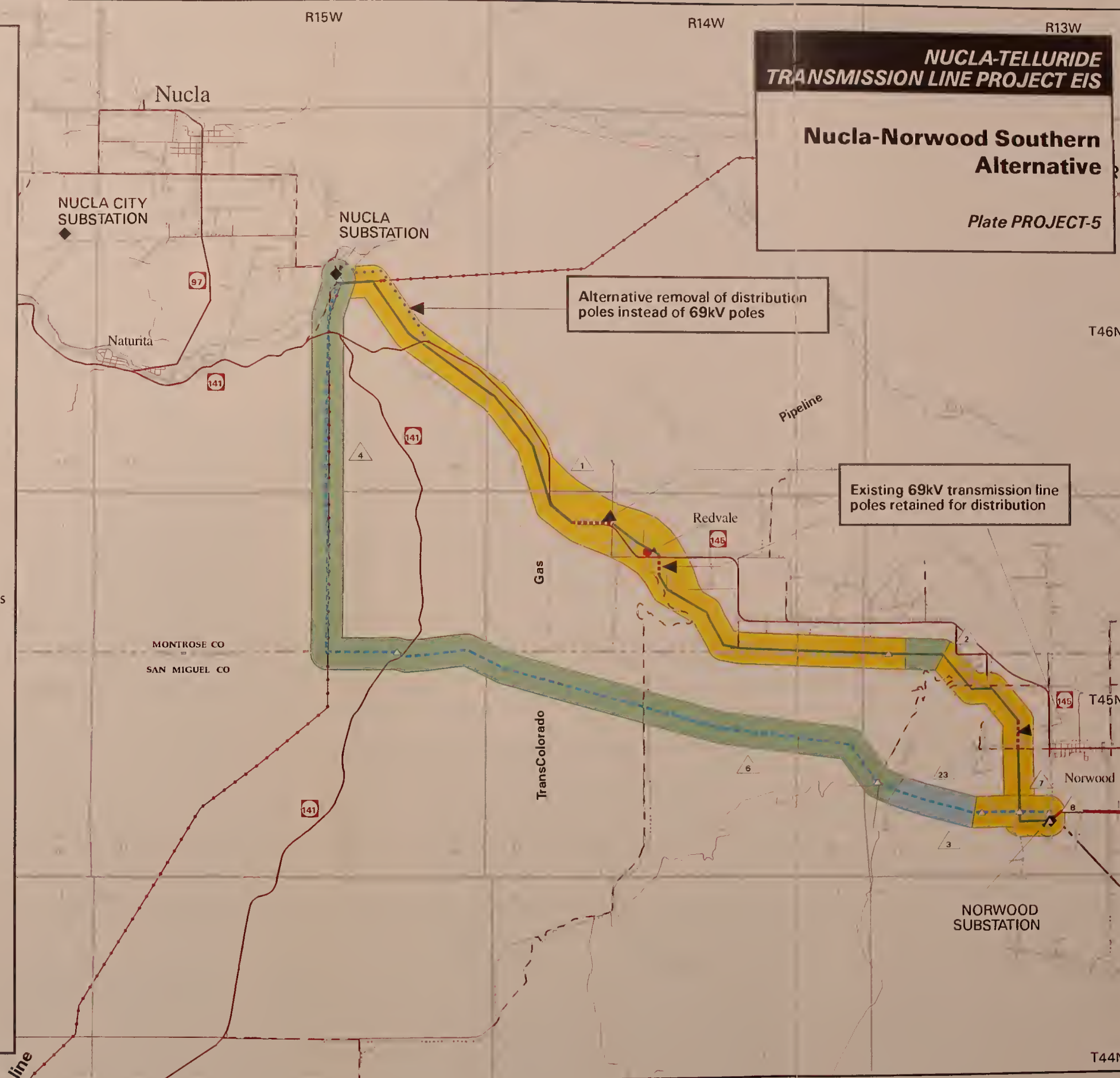
 Miles
0 1 2 3 4 5



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Nucla-Norwood Southern Alternative

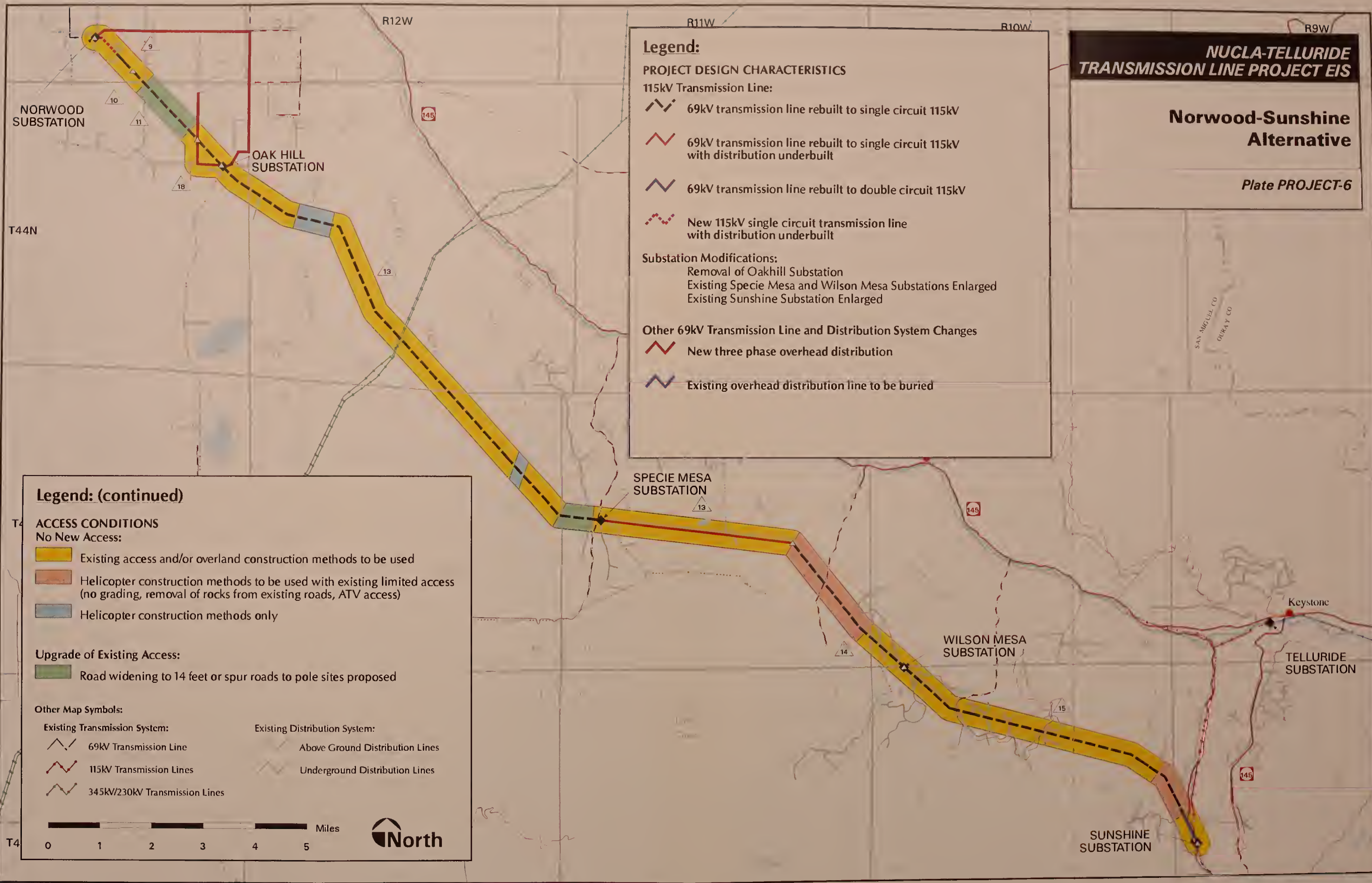
Plate PROJECT-5



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**NUCLA-TELLURIDE
TRANSMISSION LINE PROJECT EIS**





**Norwood-Telluride
Alternative**

Plate PROJECT-7

Legend:

PROJECT DESIGN CHARACTERISTICS






115kV Transmission Line:

-  New 115kV single circuit transmission line
-  Existing 115kV single circuit transmission line rebuilt to a double circuit 115kV
-  69kV transmission line rebuilt to single circuit 115kV
-  69kV transmission line rebuilt to single circuit 115kV with distribution underbuilt

Substation Modifications:

- Removal of Oakhill and Wilson Mesa Substations
- Existing Specie Mesa Substation Enlarged
- Existing Telluride Substation Enlarged




Other 69kV Transmission Line and Distribution System Changes

-  Existing 69kV transmission line and poles to be removed
-  Existing 69kV transmission line and poles retained for distribution
-  New three phase overhead distribution
-  New three phase distribution to be buried
-  Existing distribution to be buried


Legend: (continued)

ACCESS CONDITIONS

No New Access:




-  Existing access and/or overland construction methods to be used
-  Helicopter construction methods to be used with existing limited access (no grading, removal of rocks from existing roads, ATV access)
-  Helicopter construction methods only

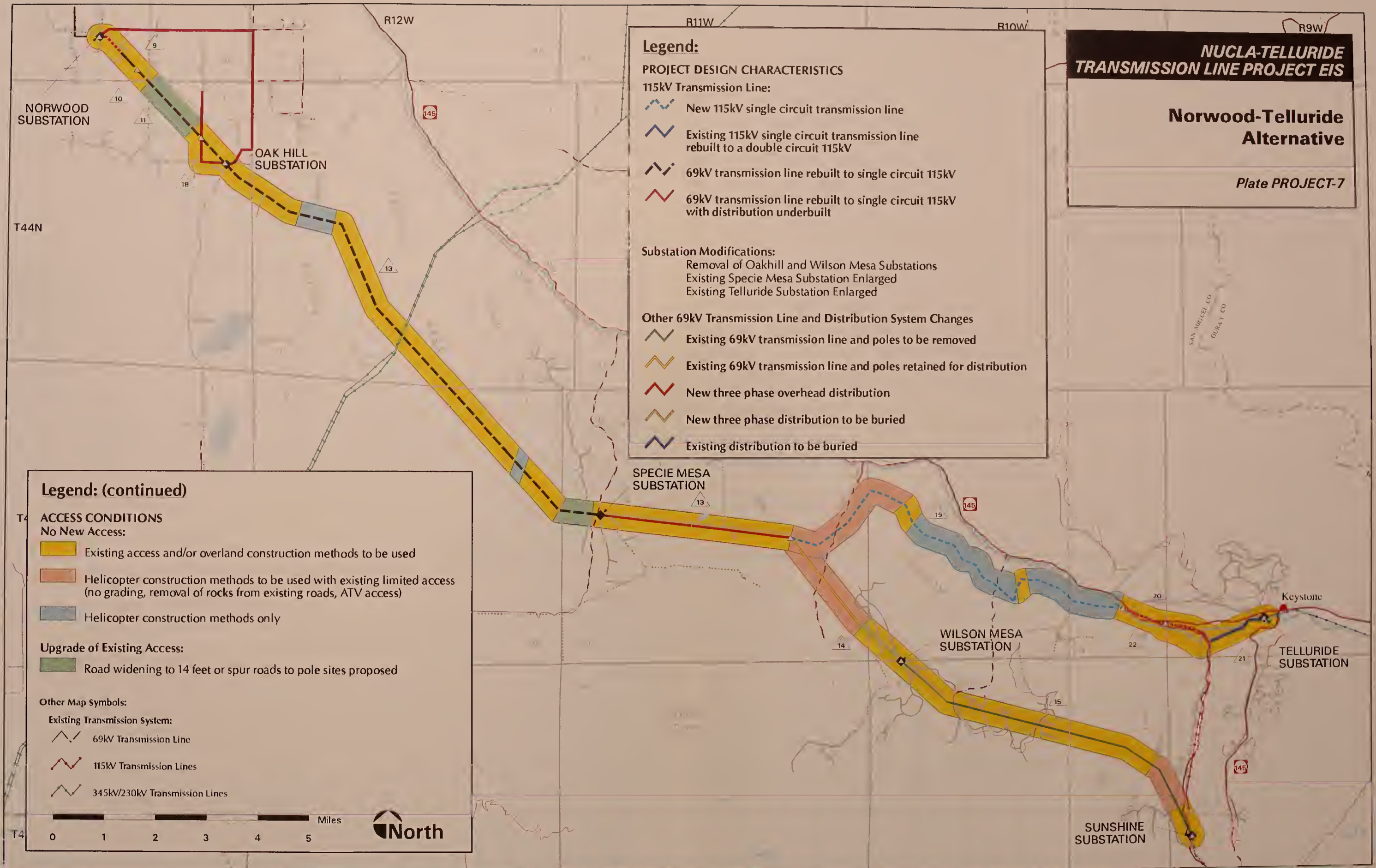
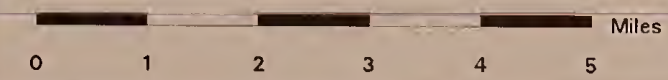
Upgrade of Existing Access:

-  Road widening to 14 feet or spur roads to pole sites proposed

Other Map Symbols:

Existing Transmission System:

-  69kV Transmission Line
-  115kV Transmission Lines
-  345kV/230kV Transmission Lines



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**NUCLA-TELLURIDE
TRANSMISSION LINE PROJECT EIS**

**115kV Transmission Line and
Substation Subalternatives**

Plate PROJECT-8

115kV Subalternative D

OAK HILL
SUBSTATIO

Legend

- New 115kV single circuit transmission line
- Existing 69kV transmission line removed

Legend

- New 115kV single circuit transmission line with distribution underbuilt
- Existing distribution line removed

115kV Subalternative E

Keystone

TELLURIDE
SUBSTATION

WILSON MESA
SUBSTATION

**Underground
Subalternative**

SUNSHINE
SUBSTATION

Keystone

TELLURIDE
SUBSTATION

NORWOOD
SUBSTATION

OAK HILL
SUBSTATION

SPECIE MESA
SUBSTATION

Placerville

R12W

R11W

R10W

R9W

T44N

T43N

T42N

SAN MIGUEL CO

DOLORES CO

Western

145

62

62

145

145

20

22

21

14

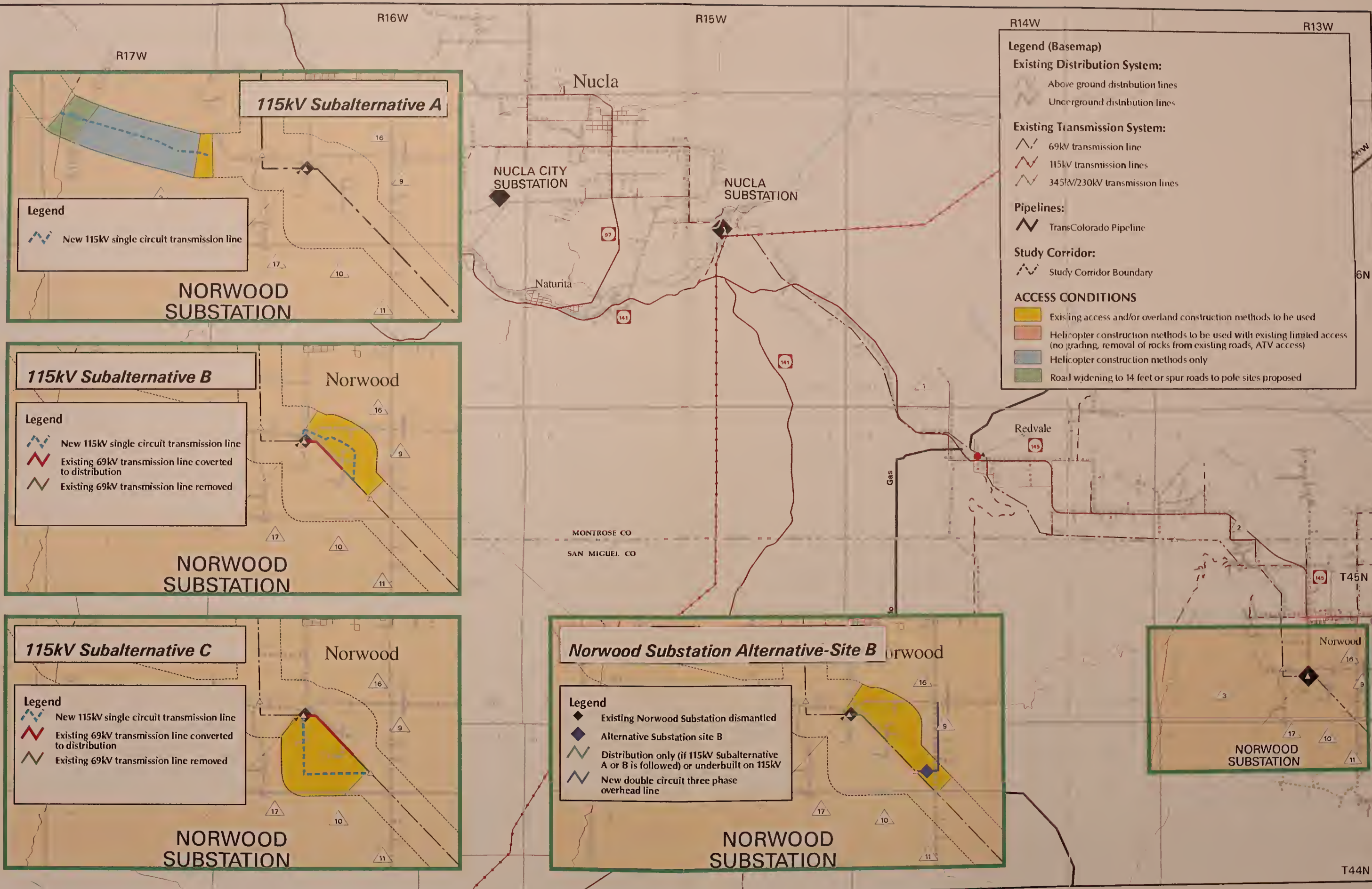
15

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on

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R16W

R15W

R14W

R13W

R17W

Nucla

NUCLA CITY
SUBSTATION

NUCLA
SUBSTATION

Naturita

Redvale

MONTROSE CO
SAN MIGUEL CO

T45N

T44N

115kV Subalternative A

Legend

- New 115kV single circuit transmission line

**NORWOOD
SUBSTATION**

115kV Subalternative B

Legend

- New 115kV single circuit transmission line
- Existing 69kV transmission line covered to distribution
- Existing 69kV transmission line removed

**NORWOOD
SUBSTATION**

115kV Subalternative C

Legend

- New 115kV single circuit transmission line
- Existing 69kV transmission line converted to distribution
- Existing 69kV transmission line removed

**NORWOOD
SUBSTATION**

Norwood Substation Alternative-Site B

Legend

- Existing Norwood Substation dismantled
- Alternative Substation site B
- Distribution only (if 115kV Subalternative A or B is followed) or underbuilt on 115kV
- New double circuit three phase overhead line

**NORWOOD
SUBSTATION**

Legend (Basemap)

Existing Distribution System:

- Above ground distribution lines
- Underground distribution lines

Existing Transmission System:

- 69kV transmission line
- 115kV transmission lines
- 345kV/230kV transmission lines

Pipelines:

- TransColorado Pipeline

Study Corridor:

- Study Corridor Boundary

ACCESS CONDITIONS

- Existing access and/or overland construction methods to be used
- Helicopter construction methods to be used with existing limited access (no grading, removal of rocks from existing roads, ATV access)
- Helicopter construction methods only
- Road widening to 14 feet or spur roads to pole sites proposed

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Routes Considered and Eliminated

Legend:

Nucla-Norwood Alternatives

- Northern Alternative Across Wrights Mesa and Mailbox Park
- Southern Alternative Following County Raods (L,M,O,P,Q)*
- Southern Alternative Following UNF/BLM Boundary (L,N,P,Q,R)
- Localized Alternative Routes Near Norwood Substation (Q,T,R,LL)

Norwood-Telluride/Sunshine Alternatives

- UNF/Beef Trail Road Alternative (L,N,V,X,EE)
- Lone Cone Road/Beef Trail Road Alternative (LL,TT,E,JJ,V,U,X,EE)
- Localized Alternative Routes Near Norwood Substation (LL,T,TT,Q,R,S,U)
- Localized Alternative Routes Across Specie Mesa (V,W,X,Y)
- Localized Alternative Route Across Bilk Creek (I,H)

*These letter designations were used during public scoping meetings in February, March and August 1998.

San Miguel River Canyon Route

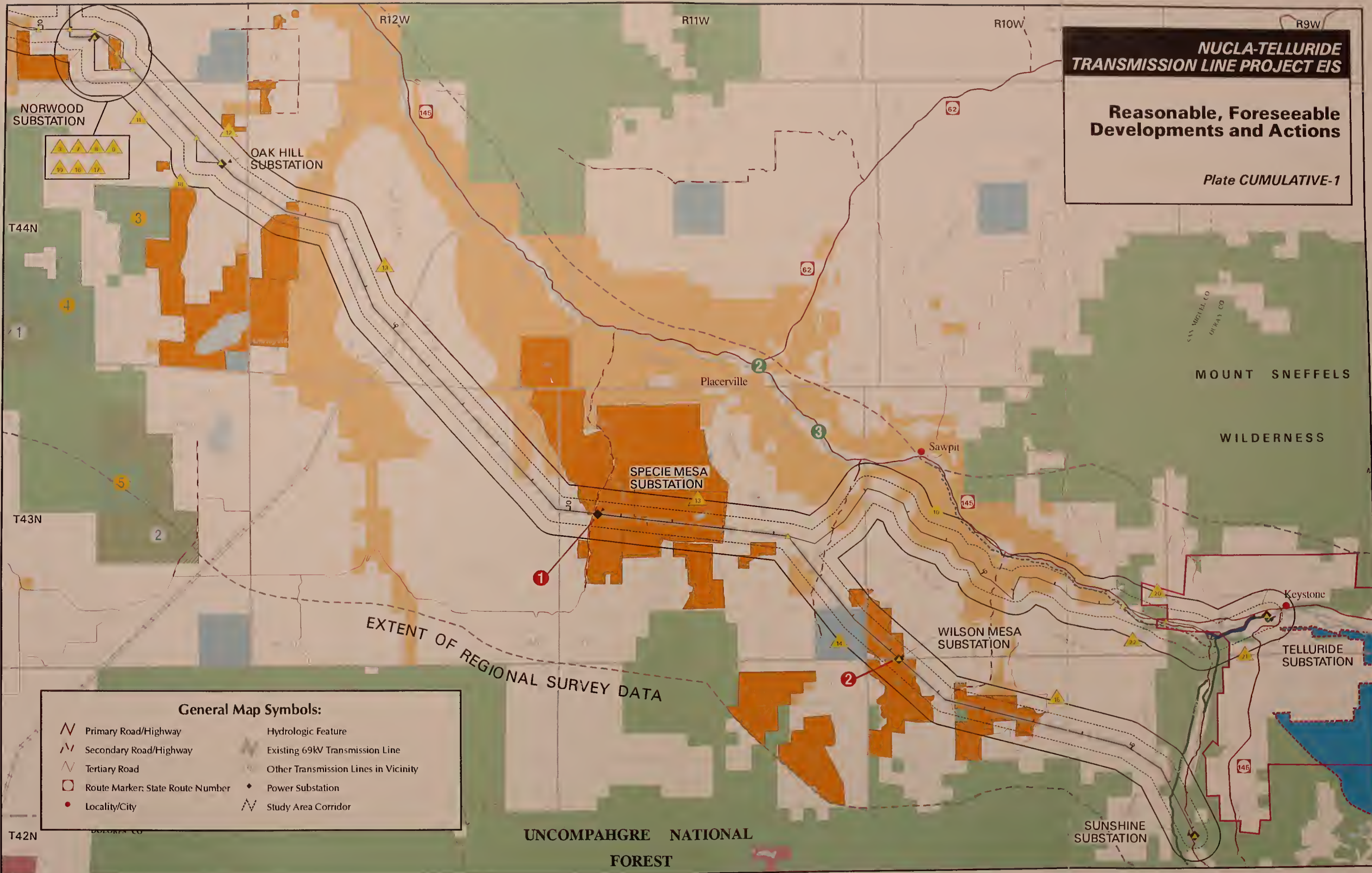
0 1 2 3 4 5 Miles



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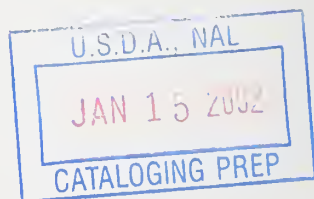
**NUCLA-TELLURIDE
TRANSMISSION LINE PROJECT EIS**

**Reasonable, Foreseeable
Developments and Actions**

Plate CUMULATIVE-1

General Map Symbols:










- | | | | |
|--|----------------------------------|--|--------------------------------------|
| | Primary Road/Highway | | Hydrologic Feature |
| | Secondary Road/Highway | | Existing 69kV Transmission Line |
| | Tertiary Road | | Other Transmission Lines in Vicinity |
| | Route Marker: State Route Number | | Power Substation |
| | Locality/City | | Study Area Corridor |



Reasonable, Foreseeable Developments and Actions

Legend:

Controlled Burns and Sales:

-  Controlled Burns
-  Planned Controlled Burn Area between 1999 and 2010
-  Planned Controlled Burn Area in 1999
-  Ed Joe Draw Forest Service Controlled Underburn Area
-  Bull Pond Forest Service Controlled Underburn Area
-  Busted Arm Forest Service Controlled Underburn Area
-  Timber Sales
-  Bull Pond Timber Sale 1998-2001
-  Busted Arm Timber Sale 1998-2001








Proposed Hydroelectric Project:

-  San Miguel River Hydroelectric Project



Residential Development:

-  Residential Subdivisions






Future Recreational Sites & Trails:

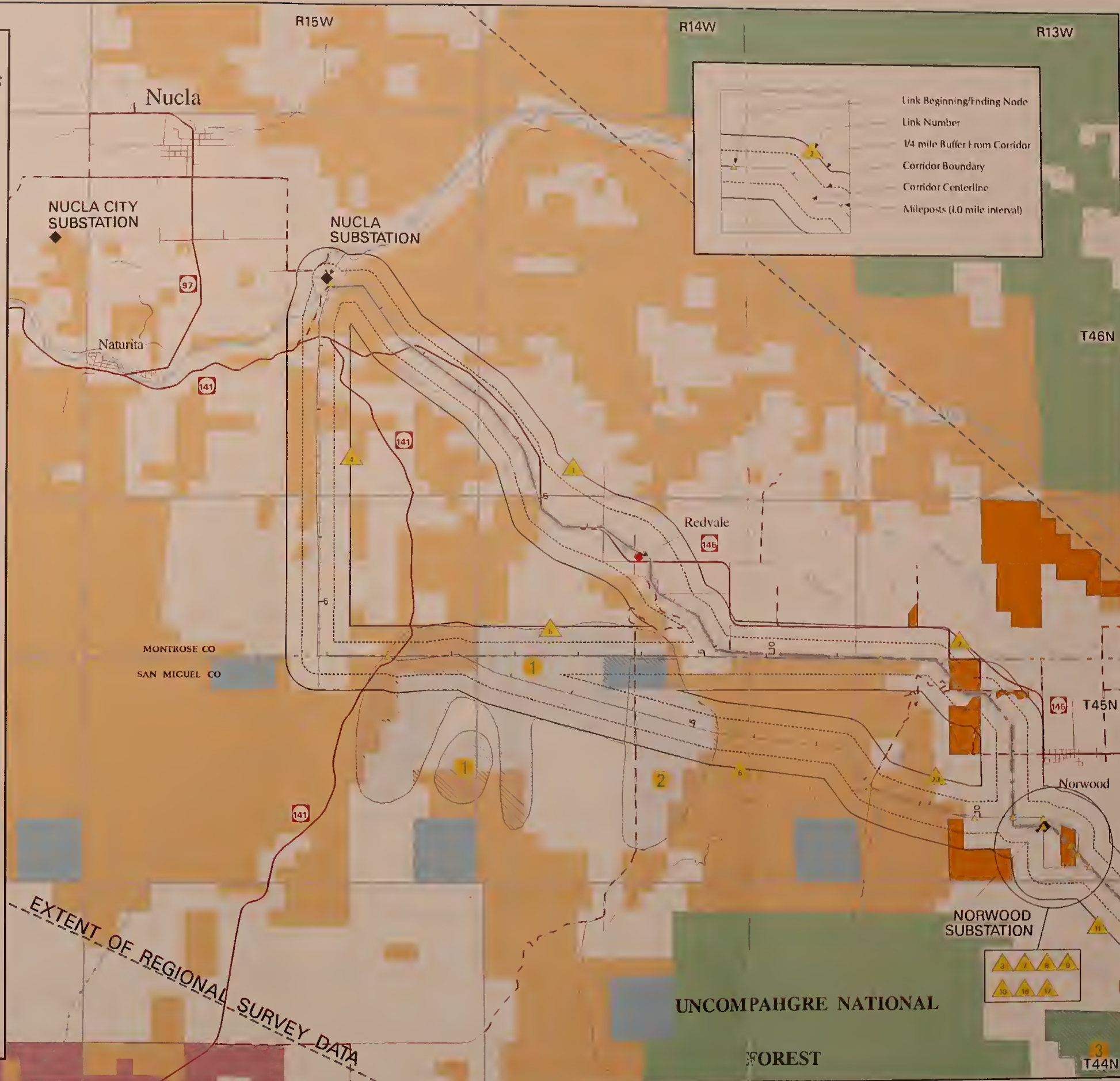
-  Norwood Hill Recreation Site (not shown on map)
-  Leopard Creek Trail & Parking
-  Potential Site for County Park
-  Existing Galloping Goose Trail
-  Galloping Goose Trail Extension
-  Telluride Ski Area (with expansion)
-  Telluride Regional Area Master Plan Boundary

Future SMPA Substation Expansion Projects:

-  Potential Expansion of Species Mesa Substation
-  Potential Expansion of Wilson Mesa Substation

Landownership

-  BLM
-  Forest Service
-  State
-  Colorado Division of Wildlife
-  Private



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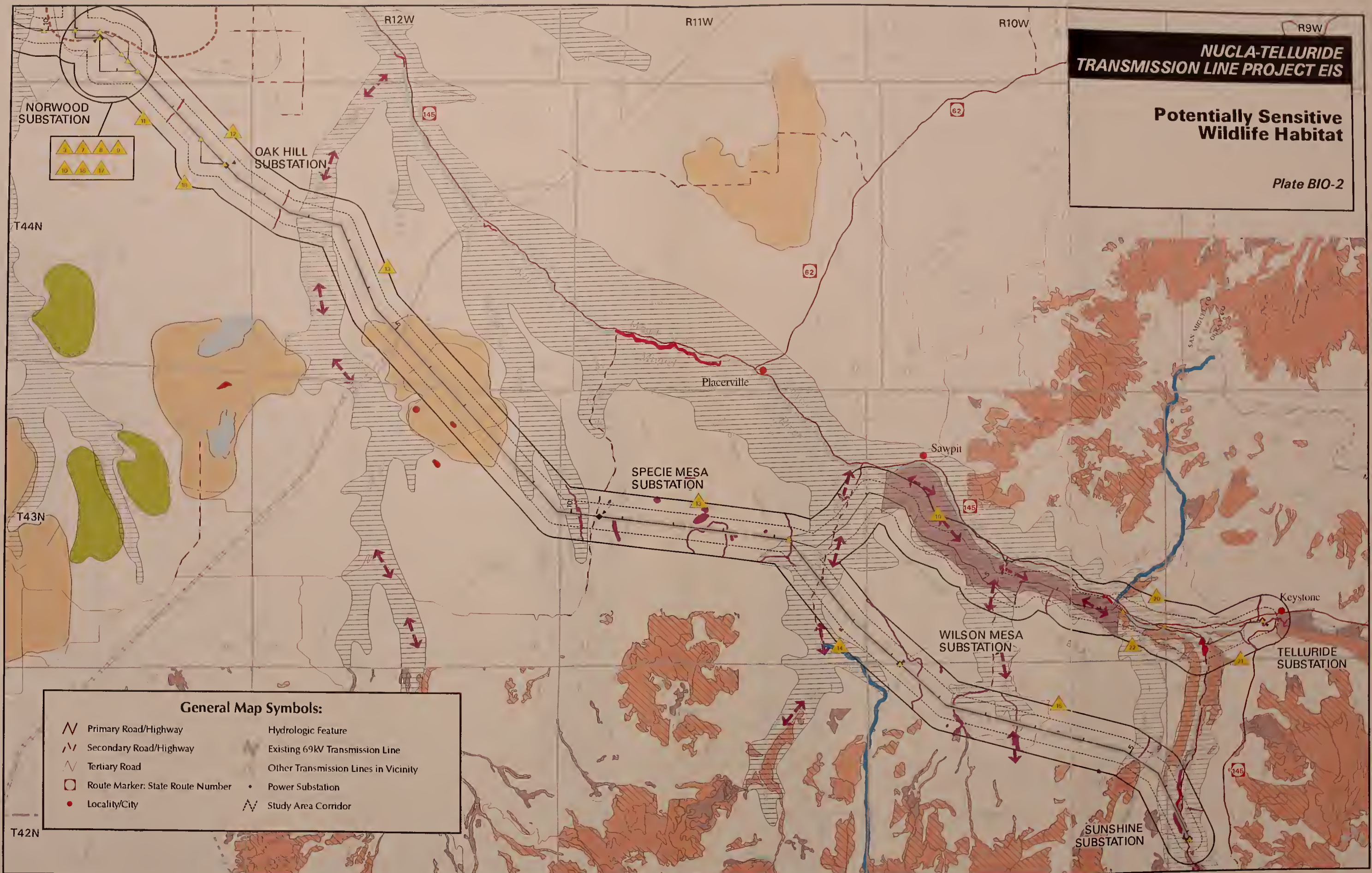
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NUCLA-TELLURIDE TRANSMISSION LINE PROJECT EIS

Potentially Sensitive Wildlife Habitat

Plate BIO-2



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Potentially Sensitive Wildlife Habitat

Legend:

Sage Grouse:

- Sage Grouse Overall Range
- Sage Grouse Historic Range
- Sage Grouse Nesting Habitat
- Sage Grouse Leks

Bald Eagle:

- Bald Eagle Day Roost Area
- Bald Eagle Night Roost Area
- Bald Eagle Daytime Concentration Area

Lynx:

- Summer and Winter Habitat
- Summer Habitat
- Denning Habitat
- Travel Corridors

Other Wildlife:

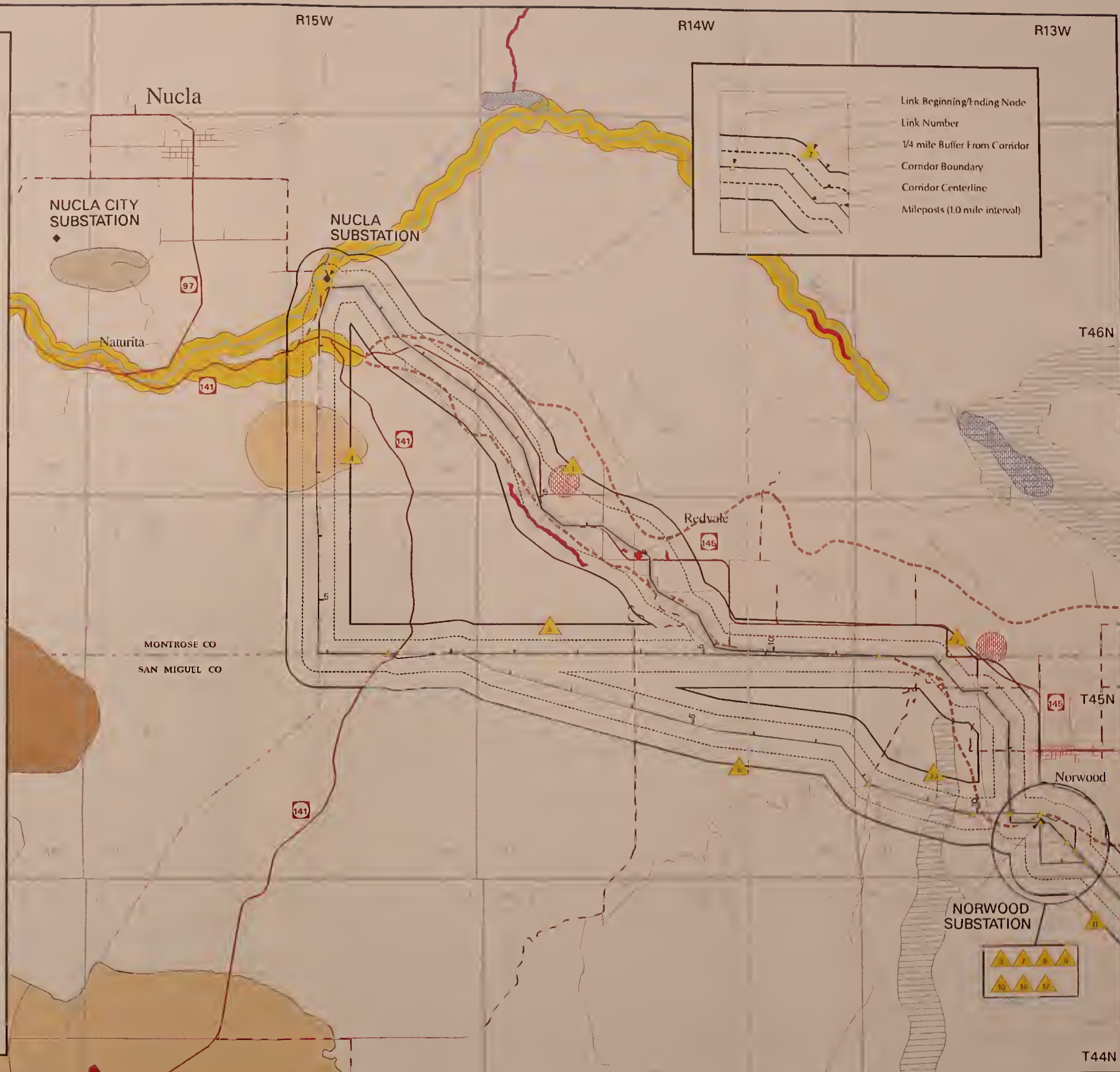
- Southwestern Willow Flycatcher Potential Habitat
- Wild Turkey Nesting and Poults Rearing Areas
- Mexican Spotted Owl Potential Habitat
- River Otter Overall Range
- Black-Footed Ferret Potential Habitat (Prairie Dog Towns)
- Other Low Density Prairie Dog Towns
- Boreal Toad Potential Habitat
- Colorado River Cutthroat Trout Overall Range

Data Specifications

SOURCE: Bureau of Land Management and Colorado Division of Wildlife. Interpreted by Bio*Logic Research, Inc., Additional field surveys by Bio*Logic Research, Inc.

MAPPING SCALE: BLM data was digitized at a scale of 1:24,000. DOW data unknown.

Note: Demarcation for Boreal Toad and Cutthroat Trout are exaggerated for clarity.



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Existing 69 Kv Pole

Photograph of Existing View



115 Kv Single Pole

Computer Generated Simulation of 115 kV Transmission Line

Norwood-Sunshine Alternative

KOPC — View from Wilson Mesa Looking East towards Sunshine Mesa.

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Existing 69 Kv Pole

Photograph of Existing View



115 Kv Single Pole

Computer Generated Simulation of 115 kV Transmission Line

Norwood-Sunshine Alternative
KOPD — View from Wilson Mesa Looking West.

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